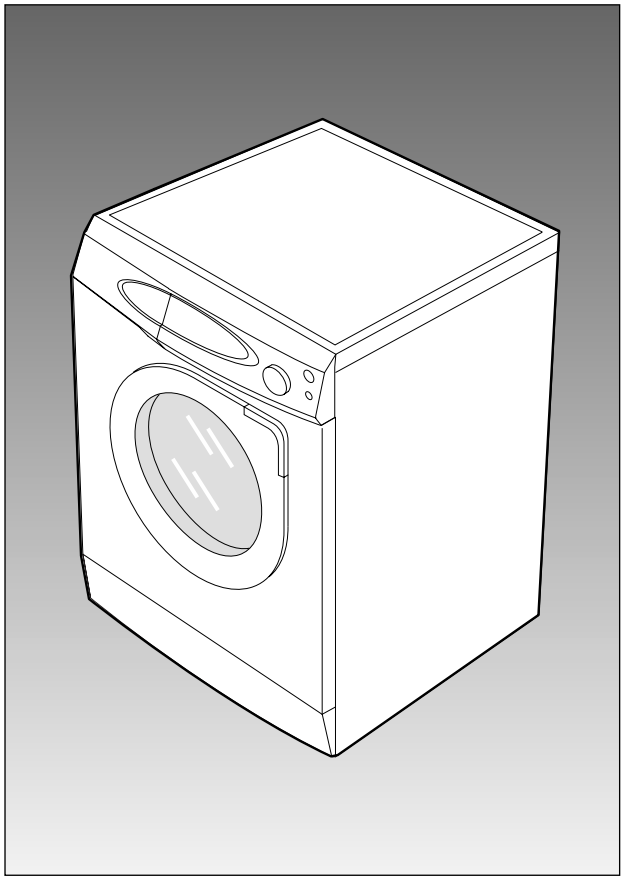
SAMSUNG

WASHING MACHINE

SWV-1200F/1100F/1000F/800F
P1291/P1091/P8091/P6091

SERVICE Manual

WASHING MACHINE



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⚠ Caution for the safety during servicing

1. Do not allow the customer to repair the product.

☞ The person may be injured or the product life may be shortened.

2. Execute A/S after unplugging the power supply unit.

☞ Be care of the electric shock.

3. Do not plug several plugs in the same outlet.

☞ It may cause the fire due to overheat.

4. Check the damage, pressing or burning of the power plug or outlet.

☞ Replace it promptly if it has problem.(It may cause the electric shock or fire)

5. Do not clean the main body with the water.

☞ It may cause the electric shock and fire and shorten the product life)

6. The wiring of the harness shall be free from the moisture and tightened during serving.

☞ It shall not be deviated by certain impact.

7. Remove any dust or filth on the housing section,wiring section,connection section during servicing.

☞ Protect the cause of the fire such as the tracking,shortage and etc.

8. Check any mark of the moisture on the electrical parts, harness section and etc.

☞ Replace the parts or remove the moisture.

9. Check the assembly status of the parts after servicing.

☞ Maintain the status before servicing.

10. Pull out the power cord with holding the plug.

☞ Be care of the electric shock and fire when the cord is damaged.

11. Unplug the power plug from the outlet when the wash machine is not used.

☞ Be care of the electric shock and fire due to the strike of the lightening.

12. Do not use or store the spray or flammable materials(including gasoline,alcohol and etc.) around the wash machine.

☞ Be care of the explosion or fire due to the electric spark.

13. Do not put the bowl of water or wet laundry on the wash machine.

☞ If the water is penetrated to the wash machine, this may cause the electric shock or fire.

14. Do not install the wash machine in the place where the snow or rain falls.

☞ It may cause the electric shock and fire and shorten the product life.

15. Do not push the control buttons with the awl,pin, or sharp materials.

☞ It may the electric shock and trouble.

16. Check the wash machine is leveled horizontally and installed properly on the floor.

☞ The vibration may shorten the product life.

17. Joint the wire by the connector correctly.

☞ When the wire is jointed by the tape, this may cause the fire due to the tracking.

18. When the wash machine is to be laid for the service, put the pad on the floor and lay the product at side slowly.

☞ If the wash machine is laid front, the relay may be damaged by the tub.

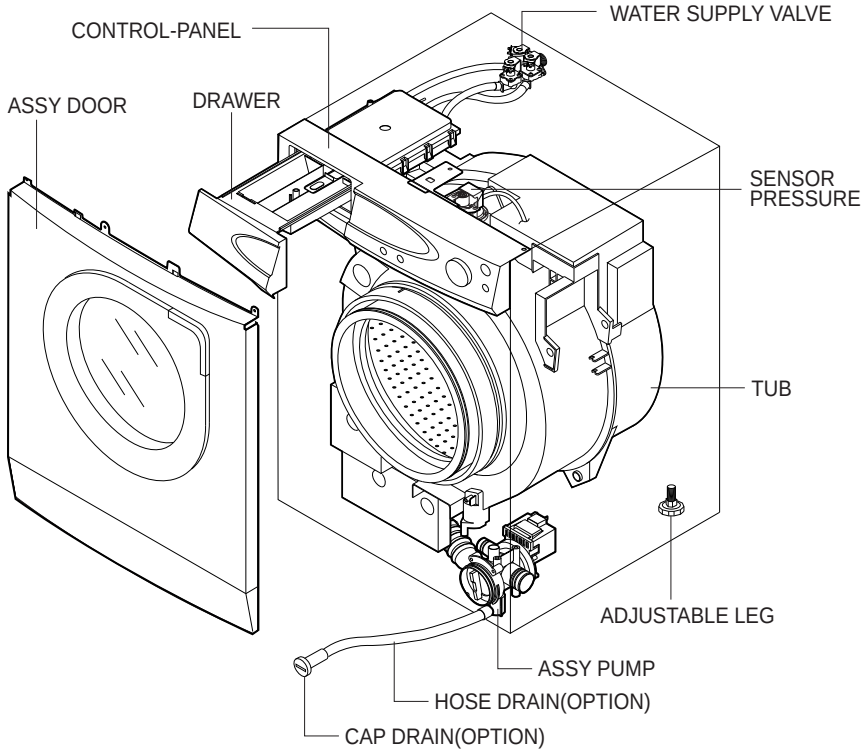
19. When the wash-heater is replaced, check it is inserted in the bracket-heater and screw the nut.

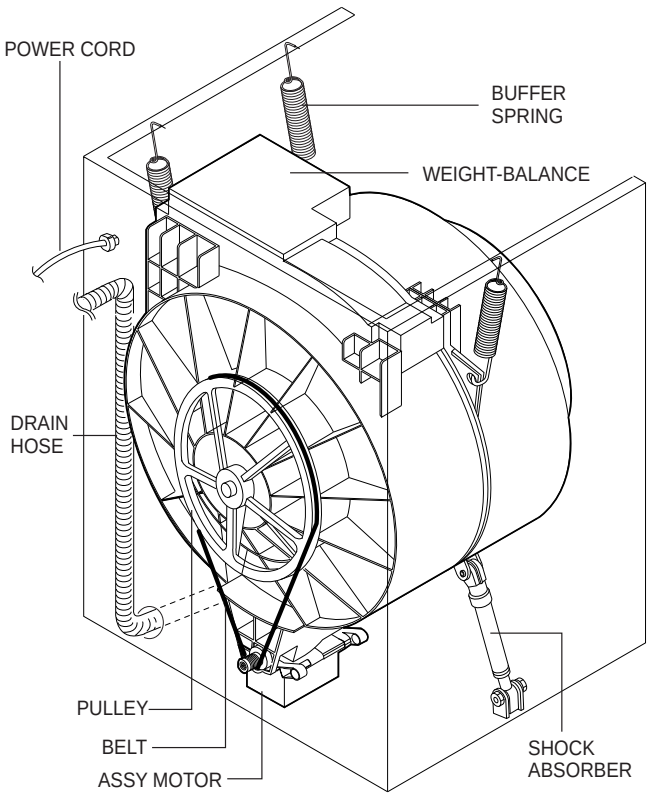
☞ If the wash-heater is not inserted in the bracket-heater properly, this may cause the noise and leakage since it is contacted to the drum.

1. Specifications

WASH TYPE	FRONT LOADING TYPE					
DIMENSION	GROSS	W 669mm X D 656mm X H 910mm				
	NET	W 598mm X D 550mm X H 844mm				
WATER PRESSURE	50 kPa ~ 800 kPa					
WEIGHT	GROSS	80 kg				
	NET	75 kg				
WASHand SPIN CAPACITY	5.0 kg (DRY LAUNDRY)					
POWER CONSUMPTION	WASHING	220 V	180 W			
		240 V	180 W			
	WASHING and HEATING	220 V	2000 W			
		240 V	2400 W			
	SPIN MODEL	P6091	SWV-800F/P8091	SWV-1000F/P1091	SWV-1100F	SWV-1200F/P1291
	SPIN 220 V	380 W	430 W	500 W	550 W	550 W
	SPIN 240 V	380 W	430 W	500 W	550 W	550 W
	PUMPING	34 W				
WATER CONSUMPTION	54/(STANDARD COURSE)					
SPIN REVOLUTION	MODEL	P6091	SWV-800F/P8091	SWV-1000F/P1091	SWV-1100F	SWV-1200F/P1291
	rpm	600	800	1000	1100	1200

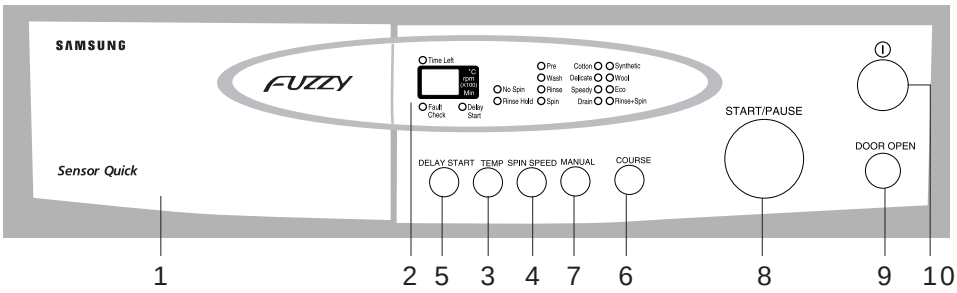
2. Overview of the Washing Machine



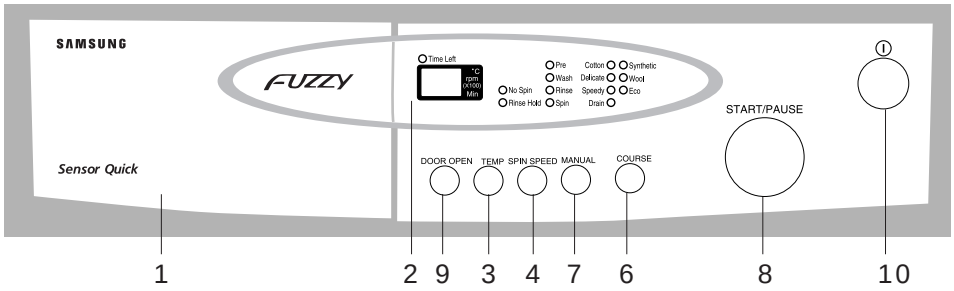


3. Overview of the control panel

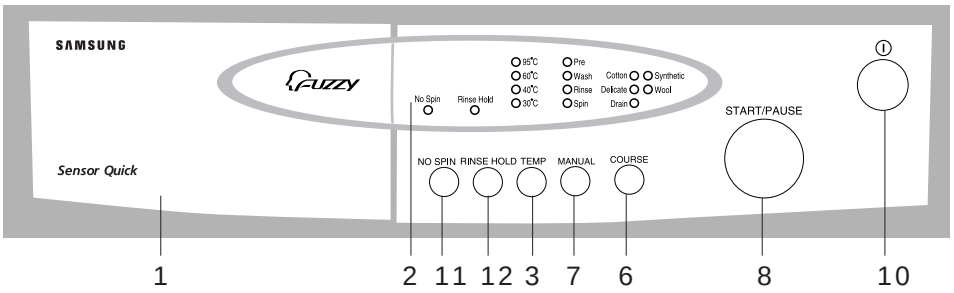
SWV-1200F/1100F/1000F, P1291/1091



SWV-800F/P8091



P6091



1. Detergent dispenser

2. Display panel

Displays the remaining wash cycle time, error messages and cancel —.

3. Temperature selection button

Press the button repeatedly to cycle through the available water temperature options (cold water, 30°C, 40°C, 60°C and 95°C).

4. Spin selection button

Press the button repeatedly to cycle through the available spin speed options

SWV-1200F/P1291 : (No spin, Rinse hold, 400, 600, 800, 1000and 1200rpms),

SWV-1100F : (No spin, Rinse hold, 400, 600, 800, 1000and 1100rpms),

SWV-1000F/P1091 : (No spin, Rinse hold, 400, 600, 800, and 1000rpms),

5. Delay Start button(OPTION)

Press the button repeatedly to cycle through the available delayed start options (from 1 hour to 24 hours in one hour increments).

6. Course button

Press the button repeatedly to select available wash programs

7. Manual button

Press the button repeatedly to cycle through the available partial wash options

[Wash+Rinse+Spin→ Prewash+Wash+Spin→Spin→Rinse(1 time)+Spin→ Rinse(2 times)+Spin→Rinse(3 times)+Spin]

in case P6091

[Wash+Rinse+Spin→ Prewash+Wash+Spin→Spin→Rinse(3 times)+Spin]

Note : Prewash is only available when washing cotton, synthetic or delicate.

8. Start/Pause button

Press to pause and restart programs.

9. Door Open button(OPTION)

Press to open the washing machine door.

10. ⏻(On/Off) button

Press once to turn the washing machine on, press again to turn the washing machine off. If the washing machine power is left on for longer than 10minutes without any buttons being touched, the power automatically turns off.

11. No Spin button(OPTION)

Press to no spin program.

12. Rinse Hold button(OPTION)

Press to rinse hold program.

5. General Error Function

•· When an error occurs, this function starts to keep generating error melody sounds and displays error indicators as shown in the followings per corresponding error by blinking in 0.5sec interval until the error status is completely cleared out. In this case, all the driving devices are turned off until the error is cleared out.

1. WATER SUPPLY ERROR
- Water Supply Error occurs when water level frequency does not show changes more than 50Hz or water is not supplied up to the water level presetting for 20 min or more at the time of initial water supply, the error status can be cleared by turning POWER S/W OFF and resuming the POWER ON initial status.
- Display shows 'E1'.

2. WATER DRAIN ERROR
- In case the water level frequency is 25.3KHz or less in the initial phase of UNB-detecting cycle.
- Water Drain error can be cleared by turning POWER S/W OFF and resuming the POWER ON initial status.
- Display shows 'E2'.

3. OVER-FLOW ERROR
- Over-Flow error occurs when the water level is in abnormal operation (OVER-FLOW: 22.40KHz/50ß§ or more). It can be cleared by turning POWER S/W OFF. Water is drained prior to POWER S/W OFF and it is forced to be drained for 2 min if a frequency of more than 25.24 KHz is detected.
- Display shows 'E3'.

4. DOOR OPEN ERROR
- Door Open error can be cleared by closing the door.
- Display shows 'dE'.

5. UNBALANCE ERROR
- Unbalance error is cleared by POWER S/W OFF and by resuming the POWER ON initial status.
- Display shows 'E4'.

6. WATER HEATER ERROR
- In case the water temperature varies by 40°C or more in 5 min, or by 2°C or less in 10 min after heating is started.
- It can be cleared by turning POWER S/W OFF.
- Display shows 'E5,E6'.

7. ASS'Y PRESSURE S/W ERROR

* Generated Frequency Signal of WATER LEVEL(W/L) S/W (KHz)

Lvevl	Low Level	High Level
Abnormal W/L Frequency	30.00 KHz	15.00 KHz

- If the same signal as the above table is detected for more than 5 seconds, it is a PRESSURE S/W Error.
- When the error occurs, perform the time-drain for 3 min and then turn off the water drain pump. Then the display shows 'E7' as a pressure s/w error indicator.

8. ABNORMAL WATER TEMPERATURE ERROR

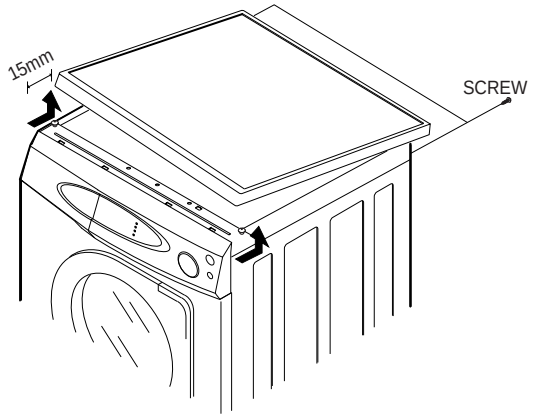
Course	Water Temp
Synthetic	60˚C or more
Delicate	45˚C or more
Wool	45˚C or more

- In case the water temperature is 60°C or more in the synthetic course, 50°C or more in the delicate course, and 40°C or more in the wool course.
- At the time of initial water supply, if the water temperature is not appropriate, water starts to be drained and it is forced to be drained for 2 min when the abnormal frequency of 25.24KHz is detected.
- Display shows 'E8'.
- This error can be cleared by POWER S/W OFF.

10. Assemble and Disassemble

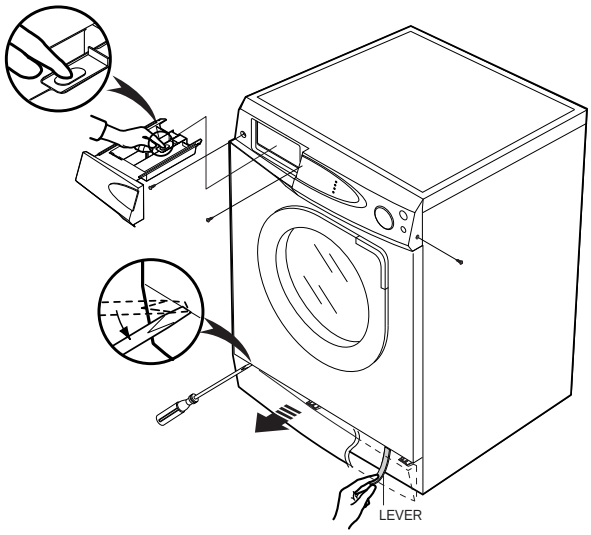
1. ASS'Y-COVER TOP

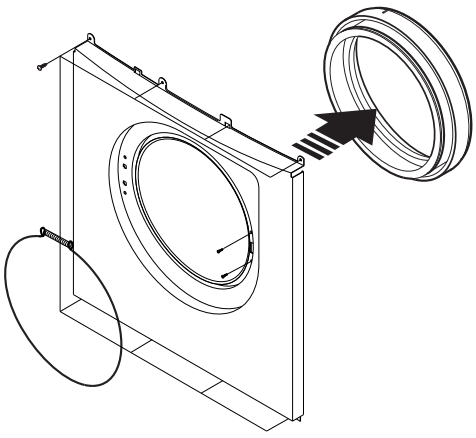
1) Remove two screws fixing the top-cover on back side.
2) Push the top-cover back about 15mm and pull it up.
3) It's possible to exchange and service the trans former, the pressure-senser, the noise-filter and the water valve.



2. FRAME FRONT

1) Remove the top-cover and the ass'y drawer.
2) Remove two screws fixing the control-panel on front side and the screw on right side.
3) Remove the cover-front(L) by using the (-)driver.
4) Pull the lever and open the ass'y-door.
5) Part the diaphragm and the wire diaphragm away from the frame-front.
6) Remove the eight screws fixing the frame-front.
7) It's possible to exchange and service the heater, the pump, the shock-absorber and the door lock s/w.





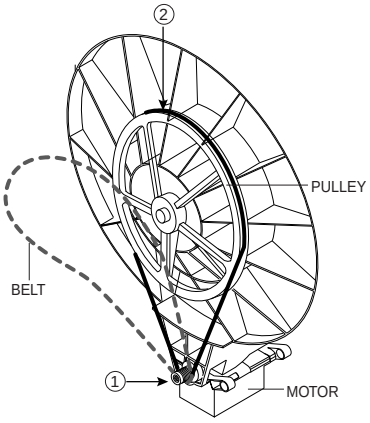
10. Assemble and Disassemble

3. BELT

1) Remove the top-cover.
2) Disassemble and assemble the belt.
3) Check the belt is located at center of the motor-pulley.

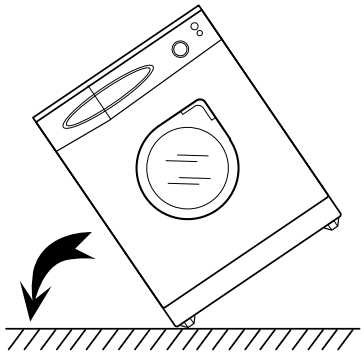
<When assemble the belt>

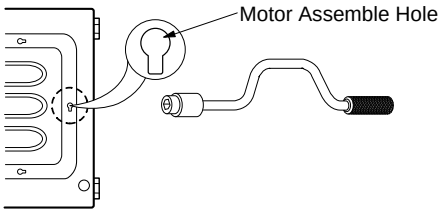
Hook the belt on the motor pulley 1) and place it around the pulley 2).



4. MOTOR

1) Lay down the washer on left side.
2) Remove the wire housing from the motor.
3) Remove the bolt fixing the motor with the box drive on back side.
4) Remove the motor.

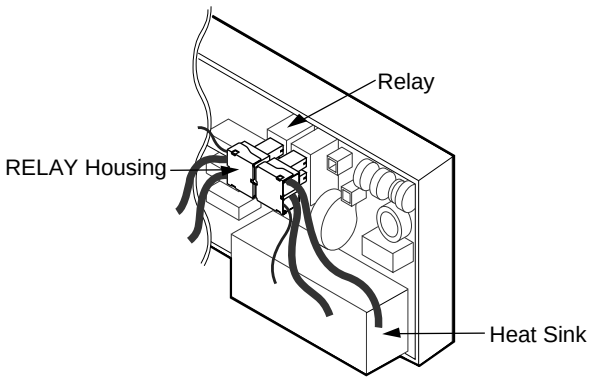




5. How to Assemble the RELAY Housing.

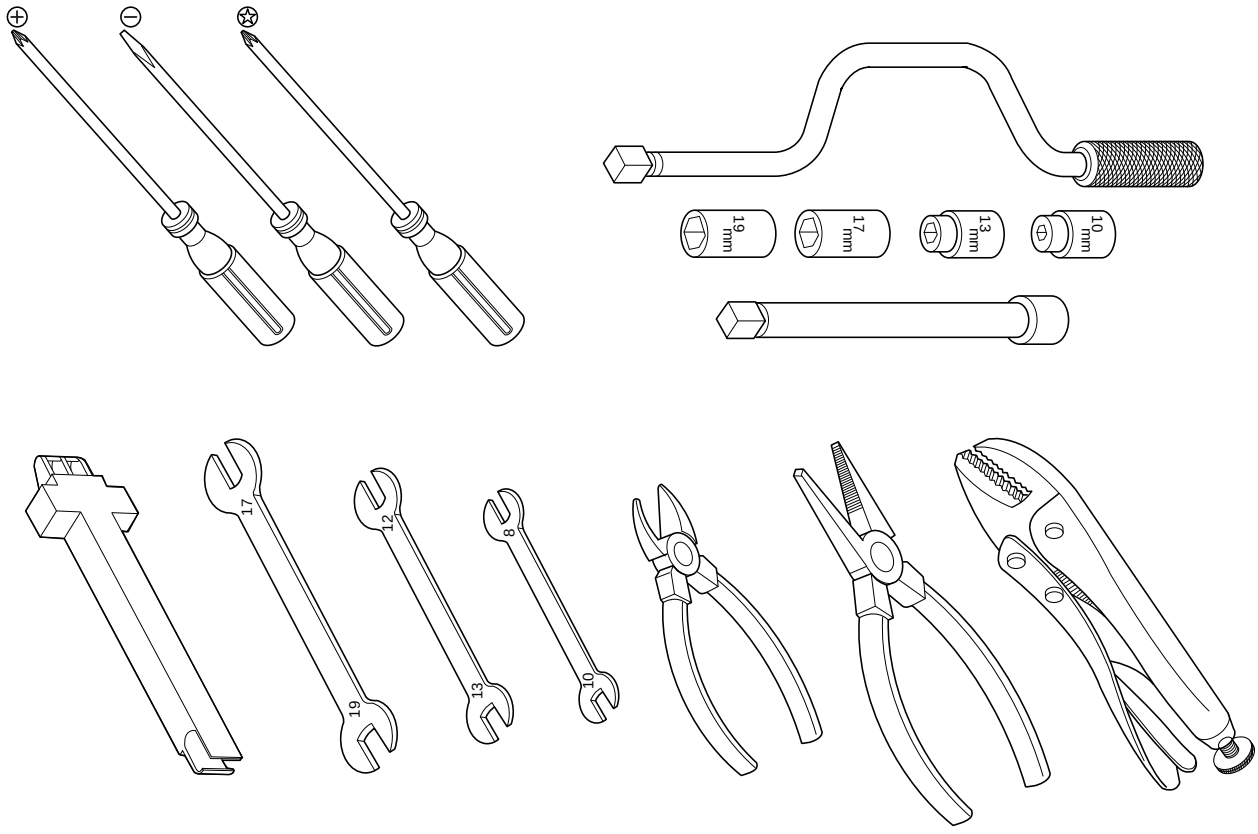
<CAUTION>

Insert the Relay Housing to the Relays on the opposite direation each other.



11. Tools for Disassembly and Assembly

NO	TOOL		
1	Box driver	10mm	Heater (1)
		13mm	Motor (1), Balance (5)
		17mm	2 holes of each left and right of the shock absorber
		19mm	1 Pulley hole
2	Double-ended spanner	10, 13 17, 19mm	Replaceable for the box driver. Since the bolt runs idle when the box driver is used, use the box driver 17mm.
3	Vice pliers		Tool to protect the idle and abrasion of the bolt for the box driver.
4	Other(Driver, Nipper, Long nose)		General tools for the after service.
5	JIG for the Tub		1 (Disassemble and Assemble)



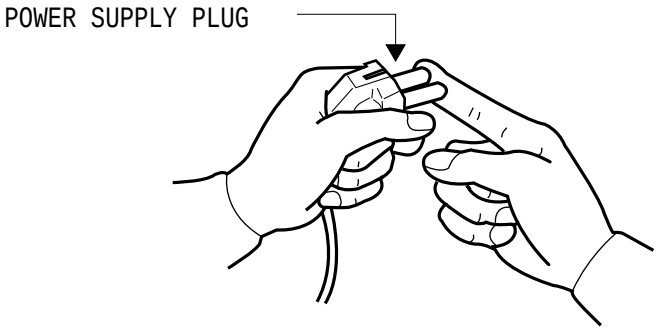
6. Trouble Diagnosis

°· As the micom wash machine is configured of the complicate structure, there might be the service call. Below information is prepared for exact trouble diagnosis and suitable repair guide.

Caution for the Repair and Replacement

Please follow below instruction for the trouble diagnosis and parts replacement.

1) As some electronic components are damaged by the charged static electricity from the resin part of wash machine or the human body, prepare the human body earth or remove the potential difference of the human body and wash machine by contacting the power supply plug when the work contacting to PCB is executed.



2) Since AC220~240V is applied to the triac T1 and T2 on P.C.B, the electric shock may occur by touching and be careful that the strong and weak electricity are mixed.

3) If the P.C.B assembly is out of order, do not replace the component on P.C.B except TACT switch since the component is coated by the urethane.

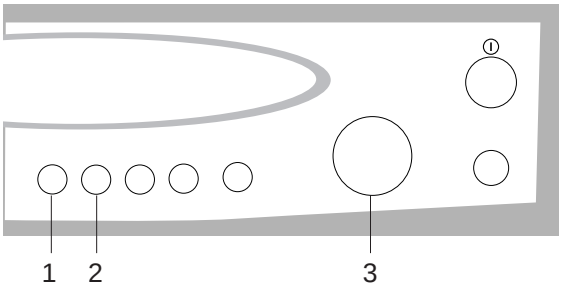
4) As the P.C.B assembly is designed for no trouble, do not replace the P.C.B assembly by the wrong diagnosis and follow the procedure of the trouble diagnosis when the micom is not operated normally.

5) As the parts on P.C.B are coated by the urethane, they can not be tested by the test bar of the meter. Check the trouble by the test mode method according to the procedure.

6. Trouble Diagnosis

No	Item	Cause and treatment
1	The power is not supplied	- Is the PCB connector connected well? - Is the voltage normal? - Is the power supply plug connected well? - Is the noise filter connected well? - Is the secondary output of the power supply transformation normal? - Is the fuse disconnected? • If above points are not found, the PCB assembly is out of order. Replace it.
2	The water is not supplied.	- Is the knob open? - Did you push START/PAUSE button after selecting the course? - Is the water supply valve connected well? - Is the winding of the water supply valve continuous? - Is the connection and operation of the pressure switch normal? • If above points are not found, the PCB assembly is out of order. Replace it.
3	The wash does not start though the water supply is stopped.	- Is the connection and operation of the pressure switch normal? - Is the pressure switch hose damaged so that the air is leaked? - Is the pressure switch hose bent? - Check the operation of the water level switch. • If above points are not found, the PCB assembly is out of order. Replace it.
4	The wash is executed while the water is supplied.	- The PCB assembly is out of order. Replace it.
5	The drum does not rotate during washing.	- Is the belt connected well? - Is the winding of the motor continuous? (Rotor winding, stator winding, generator) - Is the motor fuse normal? • If above points are not found, the PCB assembly is out of order. Replace it.
6	The drum rotates by one direction during washing. (The drum rotates to one direction for SPIN.)	- The PCB assembly is out of order. Replace it. (Inversion relay open trouble)
7	Drainage problem.	- Is the drainage hose bent? - Is the winding of the drainage pump continuous? - Is the drain filter clogged by the waste? • If above points are not found, the PCB assembly is out of order. Replace it.
8	Dehydration problem.	- The unbalance is detected. - Put in the laundry uniformly and start again.
9	Abnormal noise during SPIN.	- Is the pulley nut loosen? - Is the transport safety device removed? - Is the product installed on the level and stable place? (Little noise may be generated during the high-speed SPIN.)
10	Leak breaker or current/leak breaker is down during washing.	<When the leak breaker and current breaker is installed separately> - When the leak breaker is down, check and make the earth of the outlet. - When the current is down, the current is leaked. <Is the breaker down when the leak/current breaker is combined?> - Check the rated capacity of the current and leak breaker. The current breaker may be down due to the lack of the current when the wash machine and other apparatus are used. In this case, execute the cold water wash to check whether the current capacity is lack.
11	The heating is not executed.	- Is the wash heater terminal unplugged? - Is the wash heater normal?(Resistance value : 20.5~21.5Ω) - If above points are not found, the PCB assembly is out of order. Replace it.

7. Test Mode



1. Driving Compartment Test Mode

A. Hold down "**2**" and "**1**" keys simultaneously and then press ⏻(POWER S/W) on.
(Display shows "tE")
Hold down "**1**" and "**2**" keys simultanesously (each processing for 0.3sec) and then press ⏻(POWER S/W) on.

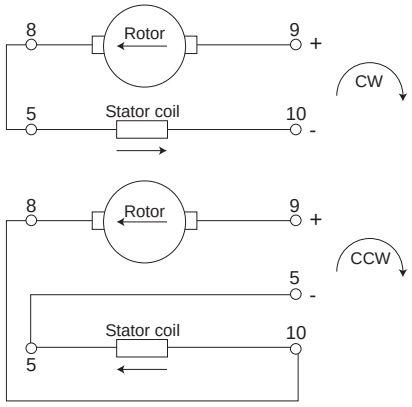
B. The driving compartment can be tested when you press "**3**" key right after entering into the intial stage of the TEST MODE.

■ **Driving Compartment Test**

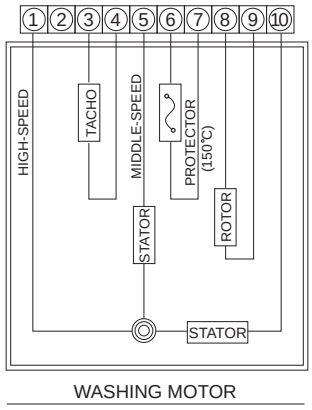
Pre-wash VALVE ON(0.3sec) → OFF(0.3sec) → Main wash(0.3sec) → OFF(0.3sec) →
Rinse VALVE ON(0.3sec) → OFF(0.3sec) → Pump MOTOR ON(0.3sec) → OFF(0.3sec) →
MOTOR RELAY1 ON(0.3sec) → OFF(0.3sec) → MOTOR RELAY2(0.3sec) → OFF(0.3sec) →
MOTOR RELAY2 ON(0.3sec) → OFF(0.3sec) → HEATER RELAY ON(0.3sec) → OFF(0.3sec) →
DOOR OPEN (Function continues when door is closed)

8. Designation of Main Components

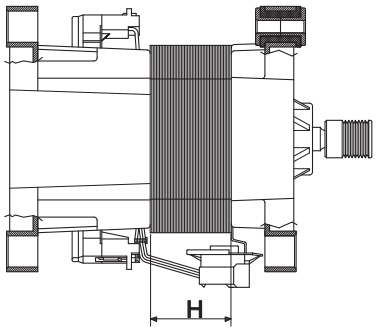
8-1 Normal / Reverse Revolution of Motor and R. P. M. Control



<Figure1>



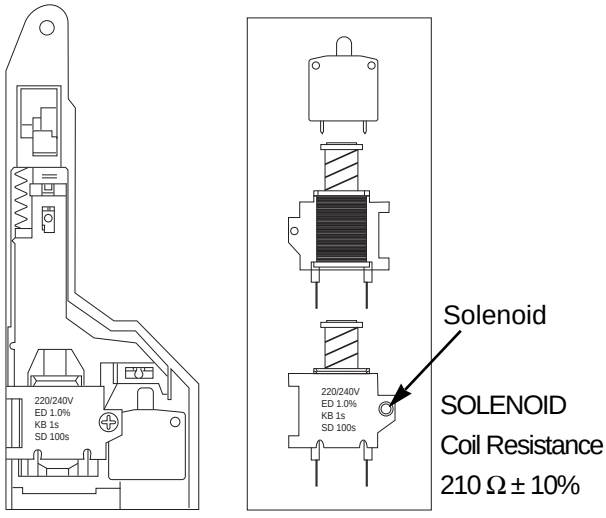
<Figure2>



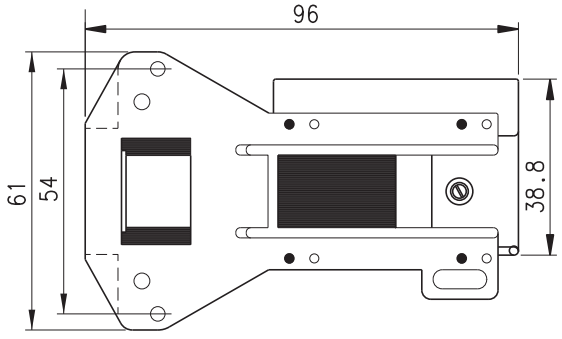
<Figure3>

	STATOR(5.10)	STATOR(5.1)	ROTOR(8.9)	TACHO(3.4)	PROTECTOR(6.7)	"H"(mm)	Code-No	Remark
Resistance value	1.64 Ω	0.91 Ω	1.9 Ω	42.7 Ω	0	52	DC31-10181A	A
	2.07 Ω	0.90 Ω	2.35 Ω	42.7 Ω	0	45	DC31-00002C	B
Rated value	220~240V / 50Hz							

8-2 Door safety Device



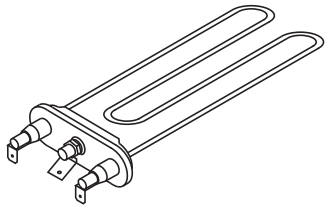
DC61-00115A

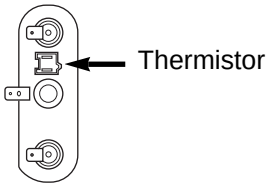


DC61-00122A

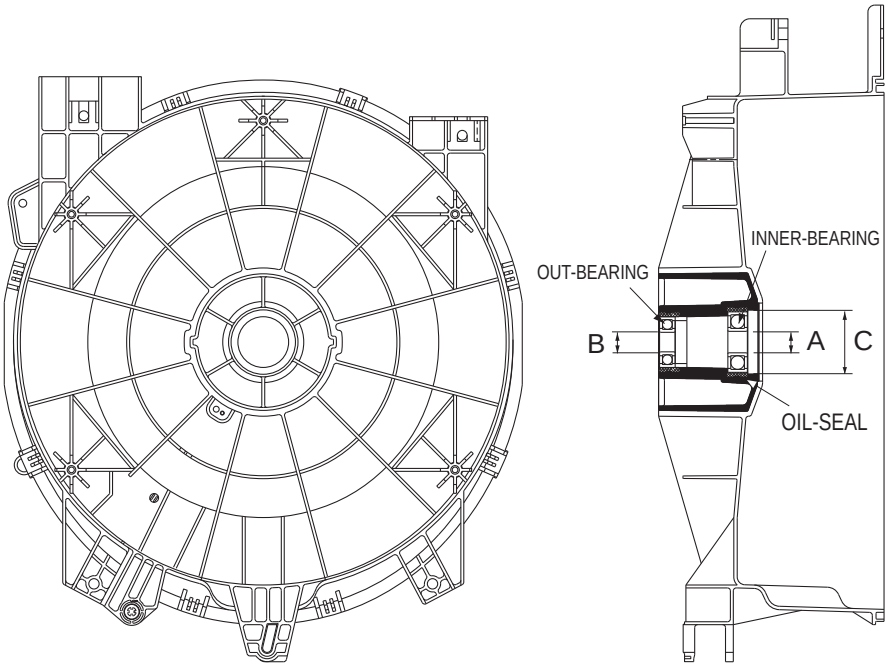
8-3 Heater

1) Capacity : AC 230V/2000W
2) Location : Bottom of TUB
3) Function : Raise the water temperature supplied at the wash process.
4) Resistance value : 23Ω ~ 29Ω
5) Thermo Fuse : 128°C





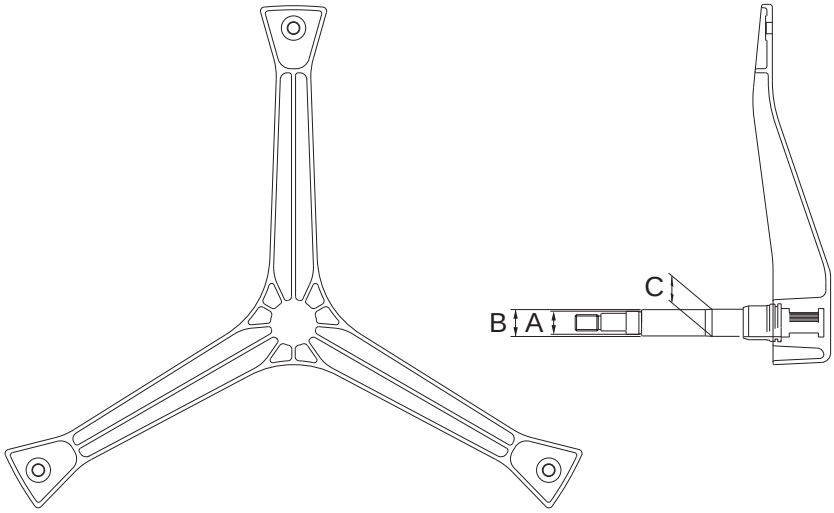
8-4 ASSY-TUB



(unit : mm)

TYPE	INNER-BEARING(A)	OUT-BEARING(B)	OIL-SEAL(C)	CODE-NO	REMARK
I	ø 30	ø 25	ø 43.9	DC97-00214A	SPIN SPEED OVER 1000rpm
II	ø 20	ø 17	ø 24.3	DC97-00214B	SPIN SPEED BELOW 800rpm

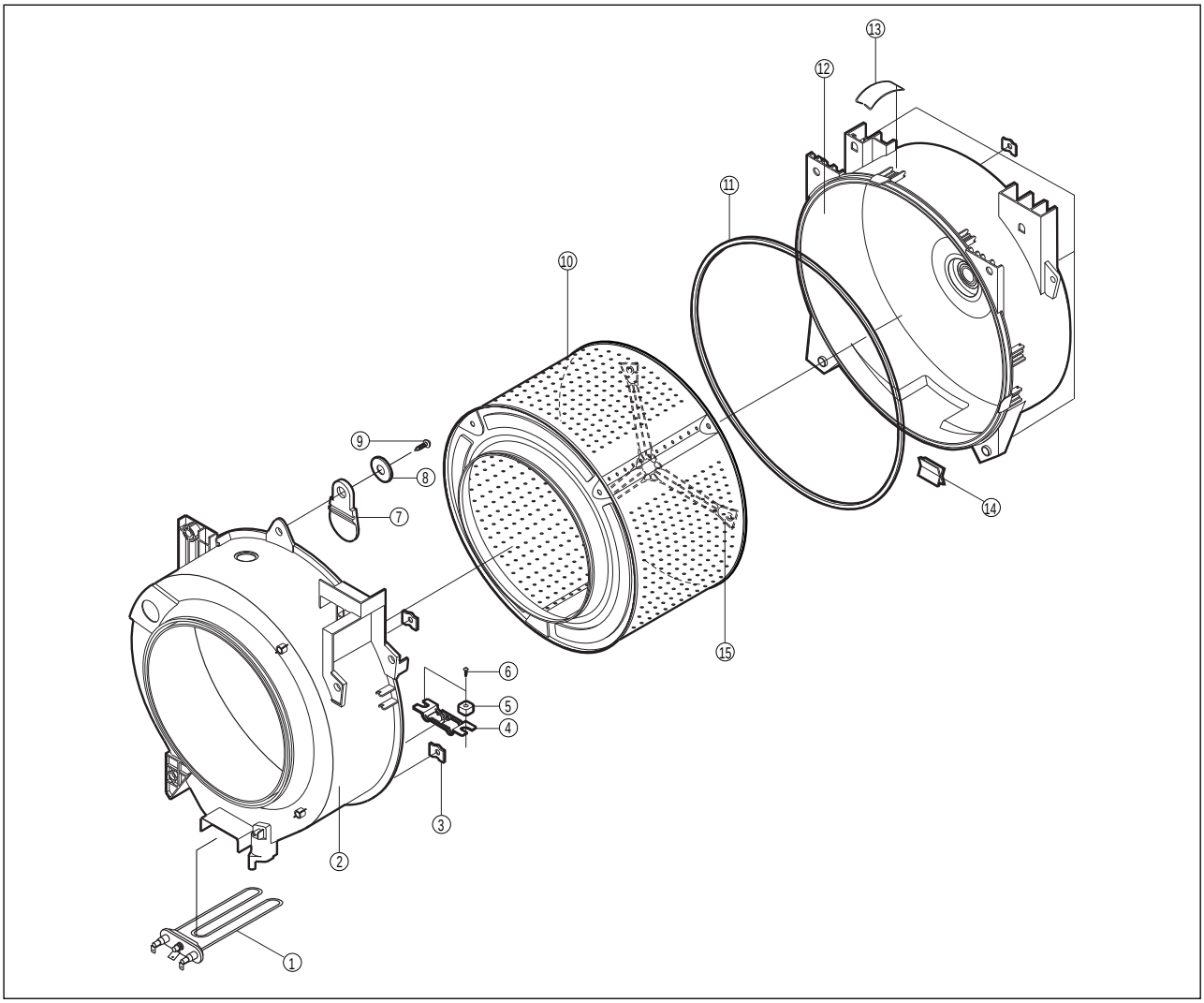
8-5 ASSY- FLANGE SHAFT



(unit : mm)

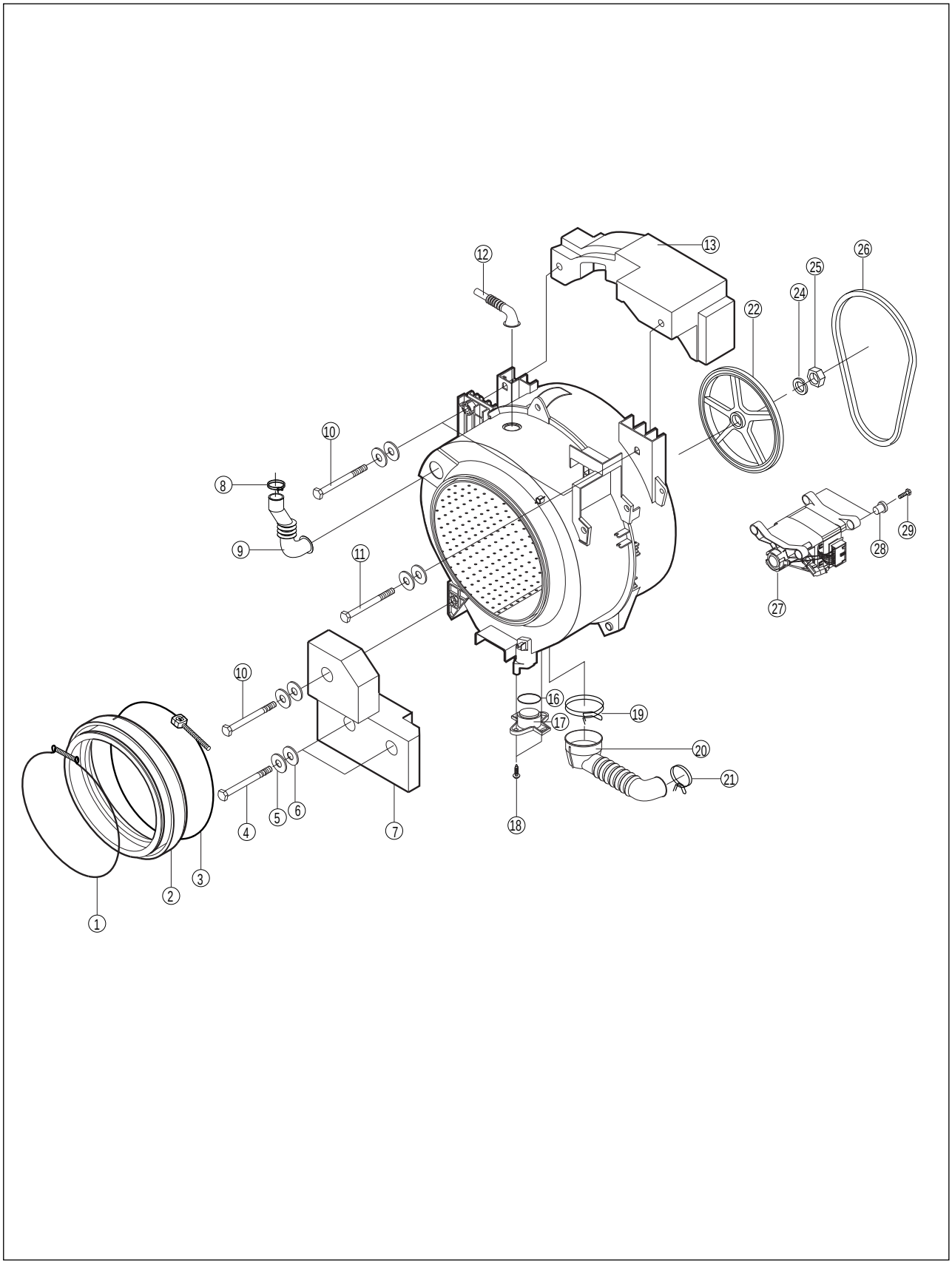
TYPE	(A)	(B)	(C)	CODE-NO	REMARK
I	ø 25	ø 30	ø 44.7	DC97-00216A	SPIN SPEED OVER 1000rpm
II	ø 17	ø 20	ø 25	DC97-00214A	SPIN SPEED BELOW 800rpm

12. Expolded View and Parts List



NO	Code No	Q'ty	Description	Specification	NSA	Remark
1	DC47-00001A	1	HEATER	230V,2000W,230V,2000W,P6091		
2	DC61-30346A	1	TUB-FRONT	FRPP(GR30%),IVORY,SWF-P12		
3	DC61-40348B	5	BRACKET-NUT	SBHG-R,T3,P1291,NO-PAINT		
4	DC61-40344A	1	BRACKET-HEATER	STS430,T1,SWF-P12,-		
5	DC61-60496A	2	SPACER-HEATER	PBT,SWF-P12,-		
6	DC60-20061C	3	SCREW TAPPING	TH,+,2,D4,L12,STS304,-		
7	DC62-20311A	1	VANE-CHECK	EPDM,BLK,SWF-P12,-		
8	DC60-60188A	1	WASHER-PLAIN	-,ID4.5,OD15.5,T1,SWF-P12,STS3		
9	DC60-20061C	1	SCREW TAPPING	TH,+,2,D4,L12,STS304,-		
10	DC91-12281A	1	ASSY-DRUM	P1091		
	DC97-00785A	1	ASSY-DRUM	SWF-P8/P6091		
	DC97-00785B	1	ASSY-DRUM	P1291		
11	DC62-40183A	1	PACKING-TUB	EPDM,BLK,SWF-P12		
12	DC61-30347A	1	TUB-BACK	SWF-P12		
	DC61-30347B	1	TUB-BACK	SWF-P12V		
	DC61-30347C	1	TUB-BACK	SWF-P6V		
13	DC61-60499B	8	CLIP-TUB	HSWR,P1291,NO/PAINT		
14	DC61-60520A	1	CLIP-TUB	SK5,SWF-P12,PLATE-TYPE		
15	DC97-00214A	1	ASSY-FLANGE SHAFT	P1291/P1091, ALDC+SM45C		See on page12
15-1	DC97-00214A	1	ASSY-FLANGE SHAFT	P8091/P6091, ALDC+SM45C		See on page12

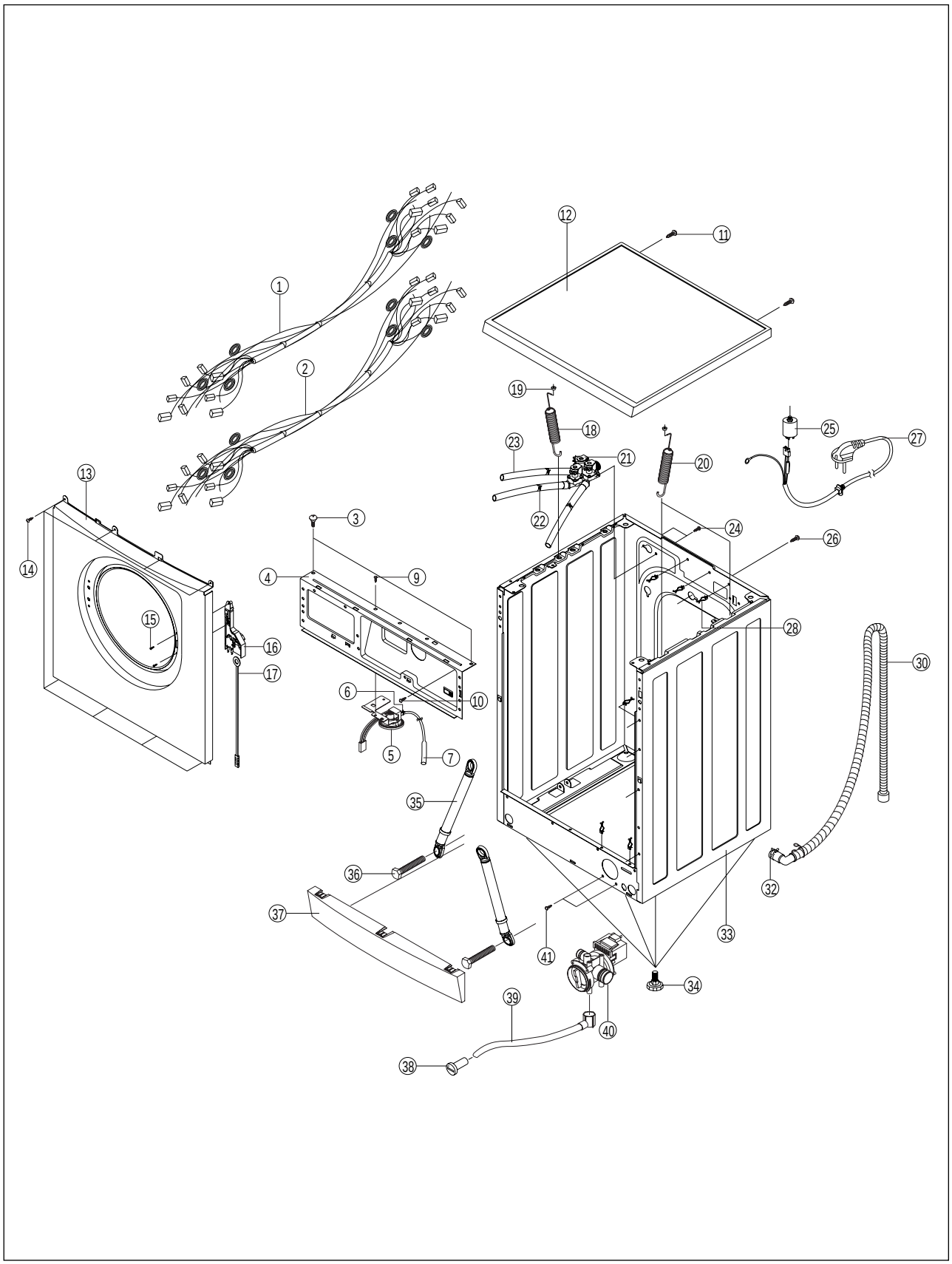
12. Expolded View and Parts List



12. Expolded View and Parts List

NO	Code No	Q'ty	Description	Specification	NSA	Remark
1	DC91-12078A	1	ASSY-WIRE DIAPHRAGM	SWF-P12,-		
2	DC61-20219A	1	DOOR-DIAPHRAGM	EPDM,GRY,SWF-P12		
3	DC91-12077A	1	ASSY-CLAMP DIAPHGRAM	SWF-P12,-		
4	DC60-40138A	2	BOLT-W.MOTOR	SM10C,HEX,M8,L62,-,ZPC2(YEL),-,-		
5	DC60-60044B	5	WASHER-PLAIN	SBC,ID8.4,OD30,T3,-,-,-		
6	DC60-60040A	3	WASHER-NYLON	-,ID10.5,OD32,T2,-,PBSP-1/2H		
7	DC66-60154A	1	WEIGHT-BALANCER	CONCRETE,SWF-P12,LOWER		
8	DC61-60497A	1	CLAMP-HOSE	HSWR,SWF-P12,ID70/OD75.8(TUB)		
9	DC62-10305A	1	HOSE-DRAWER TUB	EPDM,ID35,BLK,L158,SWF-P12/OD4		
10	DC60-40140A	2	BOLT-HEX	WEIGHT-UL/SM10C,HEX,M8,L147,-,ZPC2(YEL)		
11	DC60-40132B	1	BOLT-FLANGE	M8,L210,ZPC2(YEL),SS41C		
12	DC62-10303A	1	HOSE-AIR	EPDM,ID24,BLK,L130,SWF-P12/OD4		
13	DC66-60153A	1	WEIGHT-BALANCER	CONCRETE,SWF-P12,UPPER		
16	DC62-40184A	1	PACKING-TRAP	EPDM,BLK,SWF-P12(T3)		
17	DC61-10676A	1	CAP-TRAP	PP(TB53),-,SWF-P12		
18	DC60-20014A	2	SCREW TAPPING	TH,-,2,D4,L12,ZPC2,-		
19	DC61-60497A	1	CLAMP-HOSE	HSWR,SWF-P12,ID70/OD75.8(TUB)		
20	DC62-10304A	1	HOSE-FILTER TUB	EPDM,ID65,BLK,L151,SWF-P12/OD7		
21	DC65-60118F	1	BAND RING	PW1,YEL,-,PI/33		
22	DC66-10176B	1	PULLEY	ALDC,-,D297,P1291,ID12.5		
24	DC60-60049A	1	WASHER-SPRING	-,ID10.5,OD18,T2.5,-,SIR		
25	DC60-50014A	1	NUT-HEX	HEXAGON,M(12),ZPC2(YEL),SM10C,		
26	DC66-10139B	1	BELT-TRANSMISSION	-,-,-,-,-		
27	DC31-10181A	1	MOTOR-DRUM	MCC 52/64 148/SEC1,220~240V,50HZ,52MM		See on page11
27-1	DC31-00002C	1	MOTOR-DRUM	MCC 45/64 148/SEC1,220~240V,50HZ,45MM		See on page11
28	DC61-00041A	2	CUSHION-MOTOR	BUTYL,SWF-6V,ID16/OD20		
29	DC60-40138A	1	BOLT-W.MOTOR	SM10C,HEX,M8,L62,-,ZPC2(YEL),-,-		

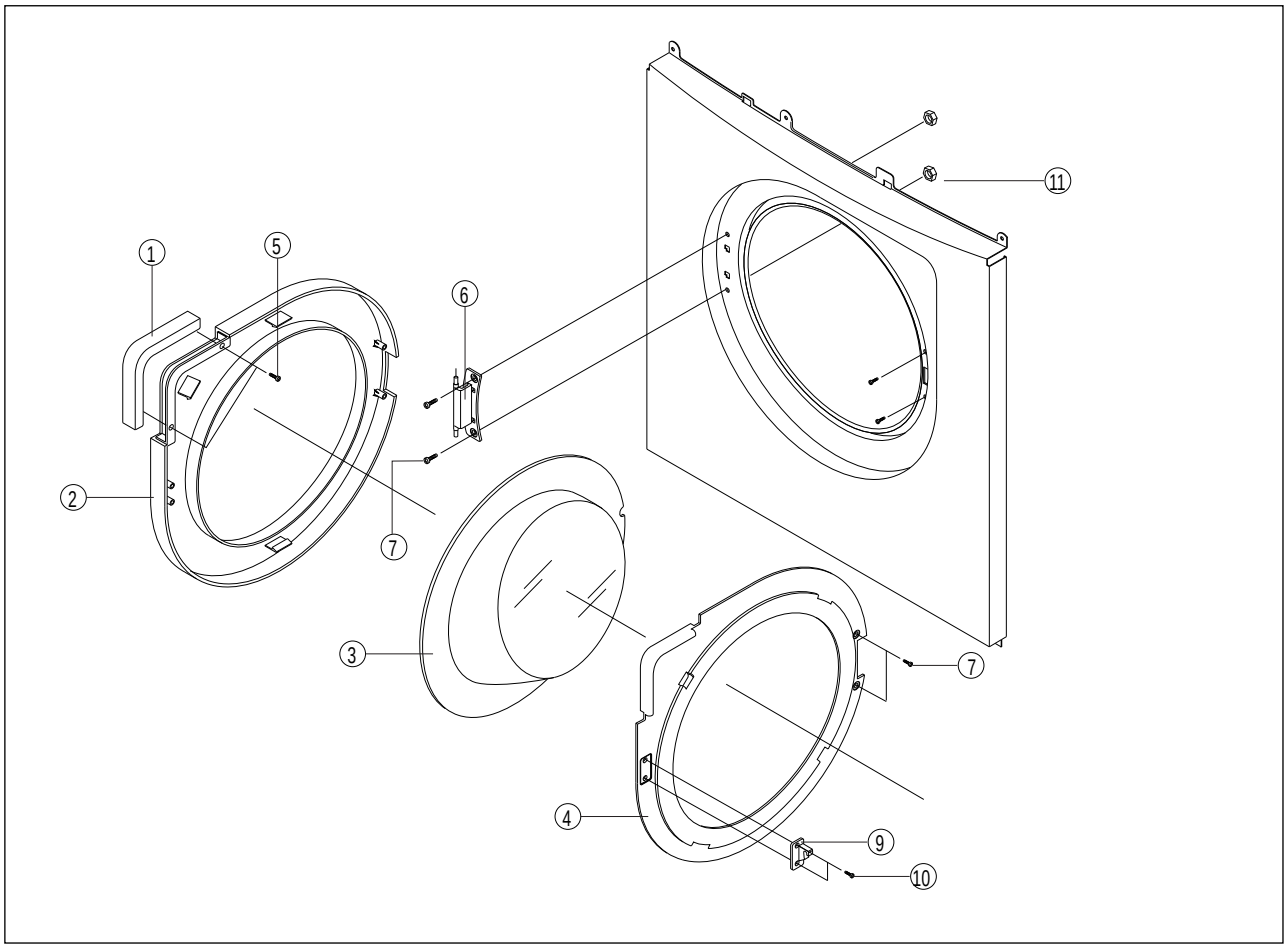
12. Expolded View and Parts List



12. Expolded View and Parts List

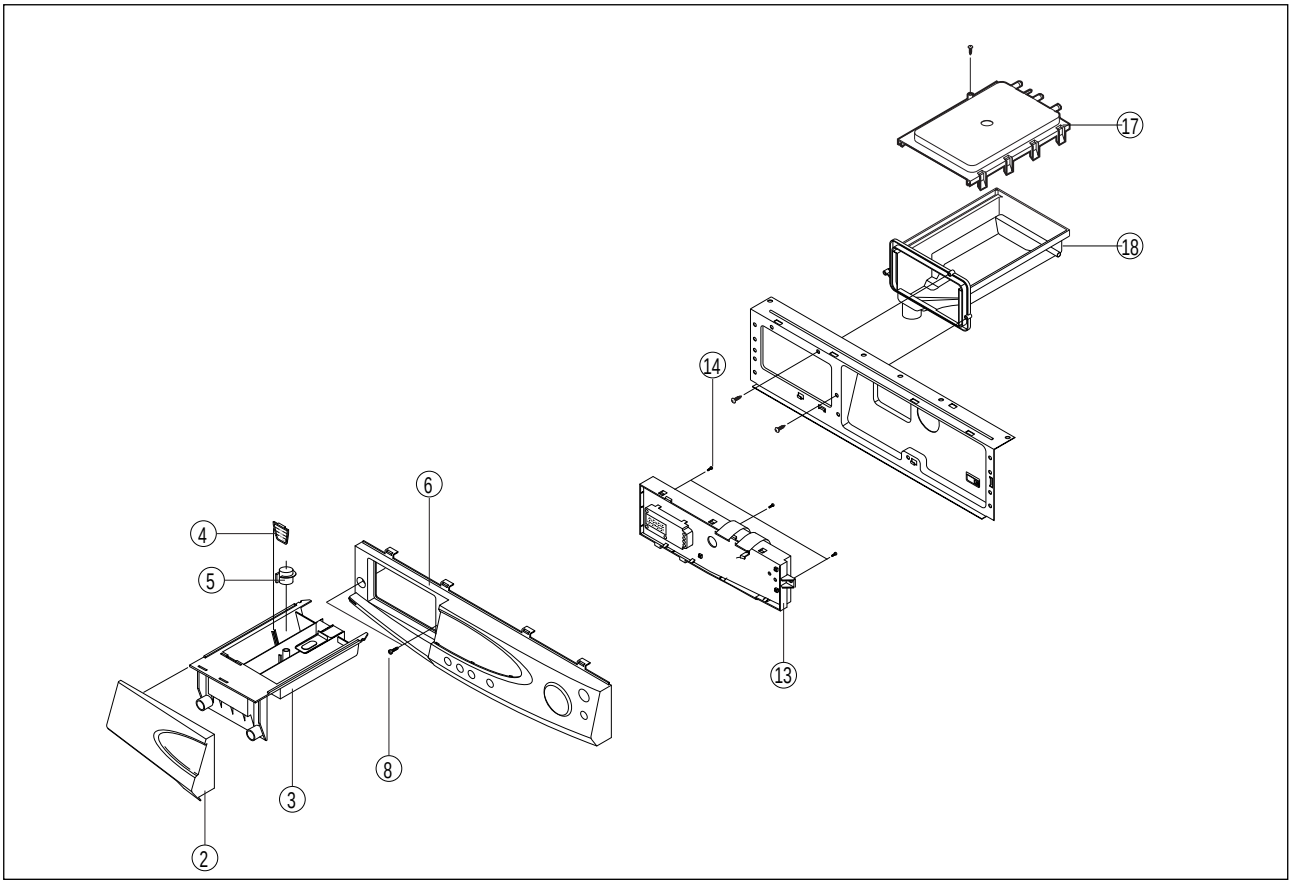
NO	Code No	Q'ty	Description	Specification	NSA	Remark
1	DC96-00070A	1	ASSY-M.WIRE HARNESS	P1291/1191/1091/8091,COLD+HOT		
1-1	DC96-00070B	1	ASSY-M.WIRE HARNESS	P1291/1191/1091/8091,COLD-ONLY		
1-2	DC96-00052B	1	ASSY-M.WIRE HARNESS	P6091,COLD-ONLY		
2	DC96-00053A	1	ASSY-WIRE HARNESS	P1291/1191/1091(SUB),HIGH-RPM		
2-1	DC96-00053B	1	ASSY-WIRE HARNESS	P8091/P6091,(SUB),LOW-RPM		
3	DC60-20136A	2	SCREW TAPPING	TH,+,2,D5,20,ZPC3,COVER-TOP		
4	DC61-30344A	1	FRAME-PLATE(U)	EGI,NTR,SWF-P12		
5	DC32-30006P	1	SENSOR PRESSURE	DN-S14,TERMINAL-TYPE(DC5V)		
6	DC61-60063B	1	CLAMP-HOSE	SK5,-,YEL		
7	DC62-10311A	1	HOSE-PRESSURE	EPDM,ID13.5,BLK,-,SWF-P12/OD17		
9	DC60-20050C	2	SCREW TAPPING	-,-,2S,D3,L8,FZY,-		
10	DC60-20054C	1	SCREW TAPPING	TH,+,1,D4,L12,FE FZY,-		
11	DC60-30015B	2	SCREW-SPECIAL	FLANGE,PH,+,D4,L12,ZnFe(YEL),-		
12	DC97-00851A	1	ASSY-COVER TOP	SWF-P12, WOOD TYPE		
12-1	DC97-00218A	1	ASSY-COVER TOP	STEEL TYPE		
13	DC61-30345A	1	FRAME-FRONT	EGI,WHT,SWF-P12		
13-1	DC61-00056A	1	FRAME-FRONT	EGI,WHT,P6091		
14	DC60-20054C	6	SCREW TAPPING	TH,+,1,D4,L12,FE FZY,-		
15	DC60-20030A	1	SCREW TAPPING	FH,-,1,D4,L12,NTR,-		
16	DC61-00115A	1	DOOR-LOCK S/W	230V/50HZ,GRY,250V(16A)		See on page11
16-1	DC61-00122A	1	DOOR-LOCK S/W	P6091		See on page11
17	DC66-30160A	1	LEVER	PE,L335,SWF-P12(ORG)		
18	DC61-70216C	1	SPRING-HANGER	HSWR,OD24,-,-,-,-,P1291,LEFT(RED/SPRAY)		
19	DC61-60180A	3	SLEEVE-PLUG	NYLON#6,SEW-720DR,NTR		
20	DC61-70217C	2	SPRING-HANGER	HSWR,OD30,-,-,-,-,P1291,RIGHT(NO-PAINT)		
21	DC62-30313A	1	VALVE-WATER	NYLON#6,SWF-P12,EATON(COLD)		
21-1	DC62-30314A	1	VALVE-WATER	NYLON#6,SWF-P12,EATON(COLD+HOT)		
22	DC61-60063B	6	CLAMP-HOSE	SK5,-,YEL		
23	DC62-10068A	0.23	HOSE-DRAWER	SOFT-PVC,ID10,NTR,L350,-		
24	6001-000947	2	SCREW-MACHINE	TH,+,M4,L10,NTR/WHT,STS304		
25	DC29-00003A	1	FILTER-EMI	FA-2151TS-1,250V,15A,2200PF,P1291,-25/+85'C		
	DC29-90001A	1	FILTER-EMI	AC LINE:FA-215T2-D		
26	DC60-20138A	1	SCREW TAPPING	PH,TORX,1,D4,L12,ZPC2,-		
27	DC96-00146A	1	ASSY-POWER CORD	P1291~P6091,250V/16A(PV)		
28	DC61-40081A	5	HOLDER-WIRE	NYLON66,-,DAWH-3NB,NTR(PI15)		
30	DC97-00139B	1	ASSY-HOSE DRAIN(O)	SWF-P12V,PP(BB110)2200		
32	DC65-60118F	1	BAND RING	PW1,YEL,-,PI/33		
33	DC99-00033A	1	PAINT	SBHG1-A,WHT,P1291(COLD)		
	DC99-00040A	1	PAINT	P6091,COLD		
34	DC91-12292A	4	ASSY-LEG	SWF-P12,-		
35	DC66-60149A	2	DAMPER-SHOCK	-,SWF-P12,80N		
36	DC60-40026A	2	BOLT-HEX	M10,-,-,SCP		
37	DC61-10672A	1	COVER-FRONT(L)	PP(BJ-730),WHT,SWF-P12		
38	DC61-10673A	1	CAP-DRAIN	PP(TB53),WHT,SWF-P12		
39	DC62-10302A	1	HOSE-DRAIN	EPDM,ID5.5,BLK,L220,OD9.5		
40	DC90-11110K	1	ASSY-PUMP DRAIN	P1291/P1091, 220V~240V/50Hz		
40-1	DC96-00149A	1	ASSY-PUMP DRAIN	P8091/P6091, 220V~240V/50Hz		
40-2	DC96-00035J	1	ASSY-PUMP DRAIN	220V~240V/60Hz		
41	6002-000444	2	SCREW-TAPPING	TN,+,2S,M4,L14,NTR,STS304		

12. Expolded View and Parts List



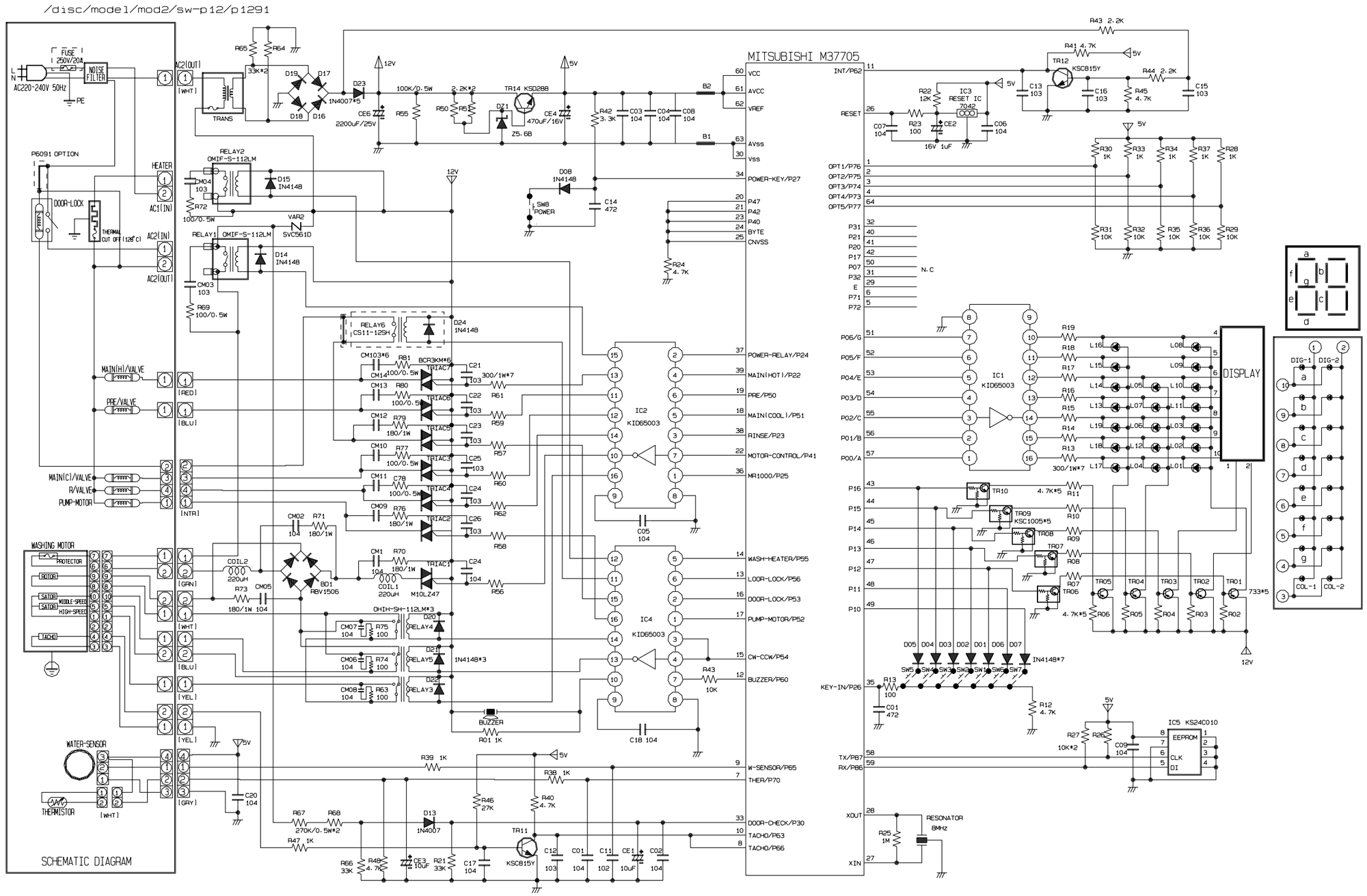
NO	Code No	Q'ty	Description	Specification	NSA	Remark
1	DC64-20013A	1	DECORATION-LID	ABS,SIL/COATING,SWF-P12,-		
	DC64-20013B	1	DECORATION-LID	SWF-P10 / P8,-		
2	DC61-10682A	1	COVER-DOOR	ABS,WHT,SWF-P12		
2-1	DC61-00055A	1	COVER-DOOR	ABS,WHT,P6091		
3	DC61-00013A	1	DOOR-GLASS	GLASS,NTR,SWF-P12		
4	DC61-40346A	1	HOLDER-GLASS	ABS,WHT,SWF-P12,-		
4-1	DC61-00057A	1	HOLDER-GLASS	ABS,WHT,P6091		
5	DC60-20060A	16	SCREW TAPPING	TH,+,2,D4,L8,FE,FZY		
6	DC97-00100A	1	ASSY-HINGE	SWF-P12,NI+CR		
7	DC60-10019B	4	SCREW MACHINE	RH,+,M5,L12,STS430,SEAL-LOCK		
9	DC66-30161A	1	LEVER-DOOR	ZnDC,L40,SWF-P12		
9-1	DC66-00016A	1	LEVER-DOOR	P6091		
10	DC60-20140B	2	SCREW TAPPING	FH,+,1,D4,L20,STS304,-,-,-		
11	DD60-50018A	2	NUT-FLANGE	-,M5XP0.8,FZY,MSWR10,-		

12. Expolded View and Parts List



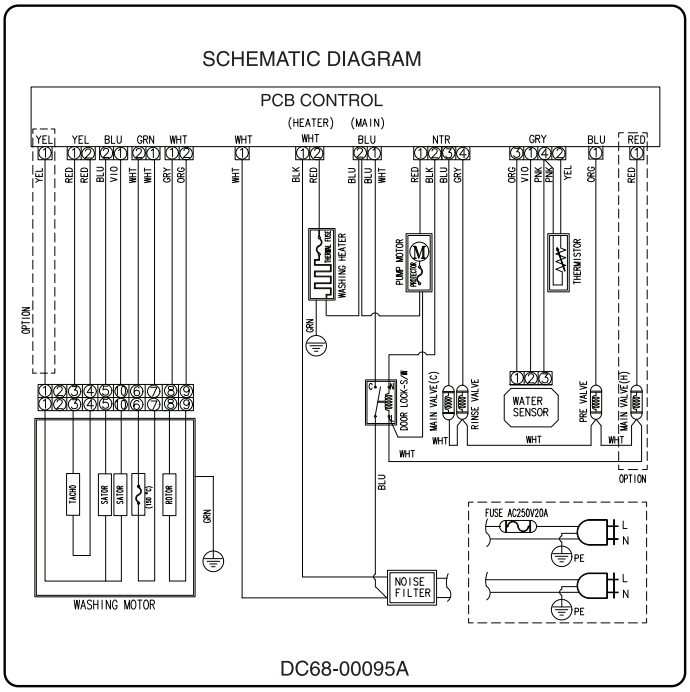
NO	Code No	Q'ty	Description	Specification	NSA	Remark
2	DC97-00004G	1	ASSY-PANEL FRONT	SWV-1200F,-		
	DC97-00004M	1	ASSY-PANEL FRONT	P1091		
	DC97-00004N	1	ASSY-PANEL FRONT	P8091		
	DC97-00004P	1	ASSY-PANEL FRONT	P6091		
3	DC61-30348A	1	BODY-DRAWER	PP,WHT,SWF-P12		
4	DC61-60498A	1	GUIDE-LIQUID	ABS,SWF-P12,-		
5	DC61-10687A	1	CAP-RINSE	PP,WHT,SWF-P12		
6	DC97-00003M	1	ASSY-PANEL CONTROL	P1291/P1191/P1091,ENG		
	DC97-00003S	1	ASSY-PANEL CONTROL	P6091, ENG		
	DC97-00703N	1	ASSY-PANEL CONTROL	P6091, ITALY		
	DC97-00003T	1	ASSY-PANEL CONTROL	P6091, CIS		
	DC97-00703P	1	ASSY-PANEL CONTROL	P1091, GERMANY		
	DC97-00003U	1	ASSY-PANEL CONTROL	P1291,CIS		
	DC97-00003V	1	ASSY-PANEL CONTROL	P8091		
8	6002-000445	2	SCREW-TAPPING	TH,+,2S,M4,L18,NTR,STS304		
13	MF-P1291-00	1	ASSY-PCB PARTS	P1291,220/240V50/60HZ		
13-1	MF-P1191-00	1	ASSY-PCB PARTS	P1191,220/240V50/60HZ		
13-2	MF-P1091-00	1	ASSY-PCB PARTS	P1091,220/240V50/60HZ		
13-3	DC96-00135A	1	ASSY-PCB PARTS	P8091,220/240V50/60HZ		
13-3	MF-P6091-00	1	ASSY-PCB PARTS	P6091,220/240V50/60HZ		
14	6002-000554	3	SCREW-TAPPING	PH,2-4*12		
17	DC91-12084A	1	ASSY-HOUSING D.W(U)	SWF-P12,-		
18	DC61-10679A	1	HOUSING-DRAWER(L)	PP,WHT,SWF-P12		

9. PCB CIRCUIT DIAGRAM



9. PCB Schematic Diagram

SWV-1200F/100F/1000F/800F, P1291/P1091/P8091



P6091